



IBM CICS Performance Analyzer for z/OS V3.2 extends CICS Explorer support

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At a glance

CICS® Performance Analyzer (CICS PA) for z/OS® V3.2 simplifies and extends its support for the CICS Explorer™, delivering powerful CICS performance analysis to a wider technical audience.

New capabilities in this release are:

- Support for statistics and statistics alerts in CICS Explorer
- Easier data source set-up when using CICS Explorer
- Flexible query and presentation engine
- Batch reports produced in PDF format
- Housekeeping for DB2® data sources

The new version also introduces a wide range of other technical and operational capabilities, including requirements raised by individual customers and user communities.

For ordering, contact Your IBM® representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255). Reference: LE001

Overview

CICS PA for z/OS V3.2 extends the capabilities of the CICS Explorer plug-in.

- Statistics alerts can now be viewed from within the CICS Explorer and used to navigate directly to the related statistics records.
- It is now much easier to set up DB2 data sources for use by the plug-in for the CICS Explorer.
- A new, flexible query and presentation engine - powered by XML files - provides views of the new data sources available in this release, and facilitates the delivery of future queries and views.
- Batch reports can now be viewed in PDF format after processing, making it much easier to distribute and consume them.
- New housekeeping routines for DB2 data sources simplify the management of data, especially important given the new DB2 data sources available in this release.
- Users can benefit from the new capabilities delivered in CICS Explorer V1.0.1 to submit standard jobs and view output directly from the CICS Explorer.

CICS PA is used by CICS systems programmers, performance analysts, architects, application developers, and IT managers who need a comprehensive CICS system and application performance reporting and analysis solution, and who value its ability to help find new ways to improve CICS system performance, lower maintenance costs, and strategically plan IT investments.

Key prerequisites

CICS PA for z/OS V3.2 runs with CICS TS for z/OS V4.1 (5655-S97), V3.1, and V3.2 (5655-M15).

Planned availability date

December 10, 2010

Description

CICS PA is a system and application performance reporting and analysis solution that is built to address the needs of everyone involved in performance analysis, system tuning, and planning capacity for CICS Transaction Server for z/OS. It provides the level of detail and flexibility to improve CICS system performance, lower maintenance costs, and strategically plan IT investments. CICS PA V3.2 adds new functions to help businesses meet the challenges of the current economic circumstances, increased regulation, and changing skill levels. At the same time it positions them to take advantage of opportunities for growth in challenging economic times.

The major area of change in CICS PA V3.2 is increased support for the CICS Explorer, with host enhancements adding new data sources and easier set-up and management of the DB2 tables, while updates to the plug-in provide valuable new queries and views of the existing and new data sources. Host and workstation components work together to provide both the experienced performance analyst and the beginning application programmer with valuable insight into CICS performance, contributing to effective management control over business applications and IT facilities.

Host enhancements

Statistics and Statistics Alerts in Hierarchical Data Base (HDB) and DB2

In addition to the current support for performance data, all statistics data plus their related statistics alerts (introduced in CICS PA V3.1) can now be stored in the HDB and loaded into DB2 tables for use by the updated CICS PA plug-in for CICS Explorer.

New CICS Explorer menu options in ISPF dialogue

New menu options in the ISPF dialogue simplify the task of using the CICS Explorer plug-in, by adding options to create and load the HDB files and DB2 tables.

Management of DB2 tables

A new DB2 table will maintain a manifest of the other DB2 tables used to hold performance and statistics data and will be used by the CICS Explorer plug-in to determine dynamically which data is available to it.

New sample JCL and SQL queries will provide basic housekeeping by expiring DB2 data based on retention period, to avoid the build up of redundant performance data and simplify the administration of CICS PA.

PDF report creation

CICS PA reports can now be saved as Adobe® Reader PDF files to the zFS (z/OS heirarchical file system) following processing, from where they can be sent as email attachments or viewed from a browser.

Improved documentation

A new *Getting Started* guide (less than 100 pages) that covers getting started and a number of common scenarios, including transaction performance, daily dashboard of system health, trend analysis, application or system upgrade, and service level management.

Sharing alert definitions

Alert definitions can now be copied from one repository to another, simplifying the set up and enabling expert users to share their experience.

Toleration for CICS Transaction Gateway V8.0

Toleration support for CICS Transaction Gateway (CICS TG) V8.0 statistics SMF records type 111 is provided, matching the support already provided for CICS TG V7.1 and V7.2. Toleration support refers to provision of the same level of reporting for both releases, but not additional fields or records in CICS TG V8.0.

CICS Explorer plug-in enhancements

CICS PA plug-in for CICS Explorer

The CICS Explorer - the new face of CICS - is the Eclipse-based tool framework for CICS, providing an intuitive, easy-to-use way of developing, operating, and managing CICS systems. CICS PA customers can now analyze the performance of their CICS applications within the CICS Explorer, by accessing performance, statistics, and statistics alert data loaded into DB2, as described above under Host enhancements. This data can be visualized within the CICS Explorer in a number of ways, including navigators, sheet views, with sortable and reorderable columns, bar chart views, and pie chart views.

Statistics reporting

The CICS PA perspective introduces new navigators and views to display the statistics data that can now be loaded into DB2. Over 80 statistics classes, grouped in more than 20 categories, can now be displayed by the CICS Explorer plug-in.

Statistics alerts

This capability, introduced in CICS PA V3.1, enables the definition of conditions, in terms of CICS statistics field values, which generate alerts in batch reports.

The addition of statistics alert reporting to the DB2 tables accessed by the CICS Explorer plug-in enables performance analysts and developers to view these alerts in the context of the related statistics and performance data, in order to highlight potential tuning opportunities or identify trends that may lead to poor CICS performance or unnecessary CICS system outages.

New query and presentation engine

A new, more flexible query engine, driven by xml files, can be used to provide queries against all available tables - statistics, statistics alerts, and performance, enabling new queries and the views they populate to be added by distributing the new xml files. Queries can join tables, for example, to show performance records related to statistics records or statistics alerts.

CICS Explorer V1.0.1

CICS Explorer V1.0.1 introduced the System z® perspective, which provides the ability to edit and submit JCL, and view JES output from within the CICS Explorer, avoiding the need to use ISPF for these tasks. This new perspective can be used to submit the JCL for CICS PA batch jobs that were created using the ISPF interface. Ideal candidates include standard reports and jobs to load and manage the HDB and DB2 tables, but the use of the ISPF dialogues are still recommended for creating report jobs. The CICS PA batch reports output to SYSOUT or to PDF files can be viewed from this perspective.

New and updated function, delivered by PTF in CICS PA V3.1

The following functional PTFs delivered in CICS PA V3.1 are integrated in CICS PA V3.2.

New features introduced by APAR PM10187

- **CICS TG V8.0 toleration support:** The APAR provides toleration support for CICS Transaction Gateway V8.0 statistics SMF records type 111. Before to application of this APAR, CICS PA only supported CICS TG V7.1 and V7.2 statistics System Monitoring Facility (SMF) records type 111. This APAR extends the support to CICS TG V8.0 by providing the same statistics reporting for both releases. Toleration support refers to provision of the same level of reporting for both releases, but not additional fields or records in CICS TG V8.0.

New features introduced by APAR PM04580

- **Performance and statistics alerts:** This APAR introduces the Performance Alert feature to allow users to monitor and report CICS TS transaction CMF performance statistics based on user defined thresholds. This feature provides a powerful tool to monitor CICS transactions for performance compliance, including service level monitoring. This APAR introduces Performance Alert reporting via the CICS PA Performance Summary and List Forms, reports and extracts with the introduction of alert fields. The alert fields are reported based on comparison of each transaction CICS Management Facility (CMF) data against the thresholds specified for the nominated CMF fields in the Performance Alert Definition. The resource and threshold values specified in the Performance Alert Definition are used by the Summary and List report to identify alert eligible transactions and compare them with the transaction CMF data. Transactions that exceed the threshold values are reported by severity.
- **Enhanced Statistics Alert Definitions panel:** Statistics Alert Definitions panel CPASTART is enhanced to provide a copy function via the "C" line action. The copy function allows users to copy a Statistics Alert definition to another HDB Register or to the same HDB Register with different definition name.
- **Ignore Alerts:** The Statistics Alert report processing is modified to ignore Alerts containing fields that are not valid for the statistics record being processed.

New features introduced by APAR PK95922

- **Extraction of statistics:** Support for extraction of statistics data directly from the SMF file into the delimited text file using a new Report Set report. Before this APAR, the only means of extracting statistics data was by loading it into a statistics HDB and then extracting the data from the HDB.
- **WebSphere® MQ Connections field renamed:** CICS TS statistics for WebSphere MQ Connections renamed the field "Callback routine invocations" to "Messages Consumed". This APAR replaces the old name with the new in all statistics functions.

New features introduced by APAR PK90007

- **DPL statistics:** Support for CICS TS V4.1 Transaction Resource Monitoring record Distributed Program Link (DPL) statistics.
- **IDENTITY class data:** Support for CICS TS V4.1 Performance Monitoring IDENTITY class data.

- **Cross System Workload report:** Support for post-processing Selection Criteria when a FORM is specified in the Cross System Workload report.

User group and FITS requirements.

MR0409093821 - Improve Cross System report selection criteria when used with report forms

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

CICS PA for z/OS V3.2 is capable as of December 10, 2010, when used in accordance with IBM associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Value Unit-based pricing

Value Unit pricing for eligible IBM System z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the [Terms and conditions](#) section.

Product positioning

An increasingly competitive economic environment is driving many businesses to transform their existing CICS applications using SOA and Web 2.0 strategies. The same pressures also force IT managers, CICS system programmers, application developers, and performance specialists to create and operate their systems at peak level while maintaining service level commitments and meeting regulatory and corporate governance requirements.

Such customers need tools to help them avoid outages and reduce downtime, while controlling costs. They need the ability to:

- Report on their CICS systems, applications, and services, assessing the impact of changes
- Anticipate and solve trends leading to poor CICS performance
- Take action rapidly when problems occur in order to minimize any downtime or performance degradation
- Plan carefully for growth to reduce the total million instructions per second (MIPS) cost
- Plan to support new application workloads and to meet ever more demanding service-level and compliance commitments

CICS PA for z/OS is a CICS system and application performance reporting and analysis solution built to address the needs of everyone involved in CICS performance analysis, system tuning, and planning capacity for future use, including those who build, manage, and deploy complex mainframe CICS applications. CICS PA provides the level of detail and flexibility that easily helps find new ways to improve CICS system performance, lower maintenance costs, and strategically plan IT investments.

CICS PA complements IBM Tivoli® OMEGAMON® XE for CICS and IBM Tivoli Composite Application Manager for Transactions (ITCAM for Transactions), as it can help to respond quickly to online performance issues by drilling down deeply into CICS performance data to identify the cause of the problem.

CICS PA also complements the enterprise-wide historical performance capabilities of IBM Tivoli Decision Support for z/OS with the additional deep and detailed CICS-related performance data, which can be used for focused CICS performance problem determination, bottleneck analysis, tuning, and capacity planning.

CICS PA is a member of the CICS Tools family, part of the zSeries® Enterprise tools portfolio supporting the CICS environment, which can help you maintain a high level of performance and availability of CICS, and help speed up the overall end-to-end development effort for new applications. CICS Tools such as CICS Interdependency Analyzer (CICS IA) and CICS Configuration Manager (CICS CM) can help you easily control your critical CICS applications and systems availability and performance, as well as extend your applications into the business on demand world. For more details of the CICS Tools family, visit

<http://www.ibm.com/software/htp/cics/tools/>

For more details on IBM System z software, visit

http://www.ibm.com/software/os/systemz/en_US/index.html

This high functionality and flexibility, as well as commitment to support the latest release of CICS TS, make CICS PA an outstanding solution for CICS performance management.

CICS PA is complementary to online monitors from other vendors, which typically also include some offline analysis and reporting functionality. Even if you are not ready to replace your online monitor, for example, with OMEGAMON XE for CICS on z/OS, you can still benefit from using CICS PA, which offers superior functionality and greater flexibility than the off-line components of vendor products.

CICS PA is competitively priced and can help greatly improve the productivity of the CICS performance specialists. This productivity improvement, and subsequent performance management cost decrease, is achievable due to high functionality and scope of CICS PA.

If you would like a trial evaluation of CICS PA, contact your IBM representative or IBM Business Partner.

Tool integration with CICS Explorer

Support for the CICS Explorer, new in CICS PA V3.1, now enables a broader set of users, including application developers and service-level managers, to benefit from the information provided by CICS PA, without requiring the specialist skills needed to use the CICS PA ISPF interface.

CICS Explorer provides an integration point for development, management, and operational capabilities delivered by the CICS runtime and add-on tools. Some examples of integration are shown below. Others will be developed and delivered by PTF and SupportPac™. Customer suggestions for future integration are invited.

CICS IA: Current® CICS IA customers not only have all of the capabilities delivered in the CICS IA Explorer (delivered with CICS IA V2.2), but are also able to link in context from many of the other views, for example, to show the transactions that may need to be disabled before a file can be closed.

Customers with both CICS IA and CICS PA can link in context from CICS PA views to CICS IA views. For example, links from a CICS PA view showing transactions with large numbers of Task Control Block (TCB) switches, to a CICS IA view showing the programs that comprise the transaction, can help development teams to implement thread-safety for CICS applications.

CICS Configuration Manager (CM): CICS CM customers can now access many product capabilities using the CICS Explorer, including the ability to search and query all CICS resource definitions whether stored in CSDs or the CICSplex® repository. Rich editors are provided allowing new definitions to be created or existing ones updated, while hiding much of the complexity previously experienced by users. The CICS CM capabilities are seamlessly integrated with the base CICS Explorer views to provide powerful editing and auditing capabilities transparent to the user.

Reference information

- CICS TS for z/OS V4.1: Software Announcement [209-135](#), dated April 28, 2009
- CICS PA for z/OS V3.1: Software Announcement [209-086](#), dated April 28, 2009

Program number

Program number	VRM	Program name
5655-U87	3.2	IBM CICS Performance Analyzer for z/OS

Product identification number

Program PID number	Subscription and Support PID number
5655-U87	5655-G43

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

<http://ibm.com/services/learning/>

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information Web site

<http://www.ibm.com/common/ssi>

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=210-331>

Publications

The following softcopy publications are available in .pdf format to download from the Publications Center.

Title	Order Number
Program Directory: CICS Performance Analyzer for z/OS V3.2	GI13-0562
CICS Performance Analyzer for z/OS V3.2 - User's Guide	SC34-7153
CICS Performance Analyzer for z/OS V3.2 - Report Reference	SC34-7154
CICS Performance Analyzer for z/OS V3.2 - Getting Started Guide	SC34-7155

The IBM Publications Center Portal

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Title	Order Number
IBM Tools: CICS Performance Analyzer Release 3	SG24-6063
You can order from	
http://www.redbooks.ibm.com/abstracts/sg246063.html?Open	

Technical information

Specified operating environment

Hardware requirements

CICS PA V3.2 runs on any S/390® or IBM eServer™ zSeries machine on which the applicable operating and software will run.

Software requirements

CICS PA V3.2 requires System Modification Program/Extended (SMP/E) of the supported z/OS or OS/390® system (5655-G44), for installation and maintenance. It operates with the following CICS configurations:

- CICS TS for z/OS V4.1 (5655-S97), V3.1, and V3.2 (5655-M15)

Note: CICS TS for z/OS V4.1 requires APAR PK83926 to be applied.

The following products are also required:

- z/OS V1.9 or later (contains SMP/E) (5694-A01)
- z/OS V1.9 DFSORT™ feature or later, or an equivalent sort product

For the CICS PA OMEGAMON SMF 112 reports, IBM Tivoli OMEGAMON XE for CICS on z/OS V4.1 (5698-A58), is also required.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

For additional information, refer to [Terms and conditions](#) section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

User group requirements

User Group Requirements

This announcement satisfies or partially satisfies requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe, Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc.

Requirement Number	Description
MR0409093821	Improve Cross System report selection criteria when used with report forms

Planning information

Packaging

The product package contains:

- The run-time component of the product on 3480 1/2-inch tape cartridge or 3590 tape via Customized Offerings
- License Information (GC34-7156)

Security, auditability, and control

CICS PA for z/OS V3.2 uses the security and auditability features of the supported underlying operating systems. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Charge metric

Program name	Part number or PID number	Charge metric
IBM CICS Performance Analyzer for z/OS V3.2	5655-U87	Per Value Unit
IBM CICS Performance Analyzer for z/OS - SW Subscription and Support	5655-G43	Per Value Unit

CICS PA for z/OS V3.2 is an IPLA product with a single charge, based on Value Units.

The product has an associated orderable Software Subscription and Support, required in order to provide the same level of support as is delivered with standard IBM S/390 ICA offerings, including voice defect support, together with code updates. It has a single annual charge which, if ordering, must be purchased in the same quantity as CICS PA.

The programs in this announcement all have Value Unit-based pricing.

Program number	Program name	Value Unit exhibit
5655-U87	CICS PA for z/OS V3.2	VUE007

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable Terms
- Whether your current mainframes are full-capacity or sub-capacity

Value Unit exhibit VUE007

	MSUS minimum	MSUS maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to value Units

	MSUS	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Basic license

On/Off CoD

CICS PA for z/OS V3.2 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name CICS Performance Analyzer for z/OS
Program PID 5655-U87

Entitlement identifier	Description	License option/Pricing metric
S015H3L	CICS PA for z/OS V3.2	Basic OTC, Per MSU-day TUC

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27
Tier D	316+	0.02

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: CICS Performance Analyzer for z/OS V3.2
Program PID: 5655-U87

Entitlement identifier	Description	License option/Pricing metric
S015H3L	CICS PA for z/OS V3.2	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S015H3F	English	3480 tape
S0166G2	English	3590 tape

Note: 3480 tape media will be withdrawn after October 26, 2010.

Subscription and Support PID: 5655-G43

Entitlement identifier	Description	License option/Pricing metric
S00VH52	CICS PA for z/OS Subscription & Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration
Orderable supply ID	Language	Distribution medium
S00VHK6	English	Hardcopy pub

Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390 and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

Single version charging

To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac®.

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the ShopzSeries help information at

<http://www.software.ibm.com/ShopzSeries>

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options for CBPDO, ServerPac, and SystemPac, include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

CICS Performance Analyzer for z/OS V3.2:

- License L-JRON-886EQV
- Form number GC34-7156

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Software Subscription and Support (Software Maintenance) applies

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Sub-capacity terms and conditions

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms	Parent, if applicable
5655-U87	CICS Performance	Reference-based	5655-M15 5655-S97

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full-machine- based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution based: The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

z/OS based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS on the machines where the System z IPLA program executes.

Reference based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full machine based: The required license capacity of a System z IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to *The IBM System z Machines Exhibit*, Z125-3901, or visit the Mainframes section of the System z Exhibits website

<http://ibm.com/zseries/library/swpriceinfo/>

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex®. You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

Sub-capacity eligibility

To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390 operating system must be migrated to the z/OS operating systems.
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing website

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract, *Amendment for IBM System z9® and System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

IBM Getting Started Sub-capacity Pricing for z/OS IPLA Software applies.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of a sub-capacity eligible reference product and machine.

On/Off Capacity on Demand (CoD)

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

Prices

For additional information and current prices, contact your local IBM representative.

Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

Program name: CICS Performance Analyzer for z/OS V3.2
Program PID: 5655-U87

Entitlement identifier	Description	License option/Pricing metric
S015H3L	CICS PA for z/OS V3.2	Basic OTC, Value Units
S015H3L	CICS PA for z/OS V3.2	Basic OTC, per MSU-day TUC

Subscription and Support PID: 5655-G43

Entitlement identifier	Description	License option/Pricing metric
S00VH52	CICS PA Subscription and Support	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration

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